

**Listing and Amendments to the Claims**

This listing of claims will replace the claims that were published in the PCT Application and the International Preliminary Report on Patentability:

1. (currently amended) An active-matrix image display device comprising:
  - several light emitters ~~(2; 52)~~ forming an array of emitters distributed in rows and columns;
  - power supply means ~~(V<sub>dd</sub>)~~ capable of supplying current simultaneously to all of the emitters ~~(2; 52)~~ of a column during an emission step and a step of programming the emitters ~~(2; 52)~~;
  - means ~~(3)~~ for controlling the emission of the emitters ~~(2; 52)~~ comprising:
    - for each emitter ~~(2; 52)~~ of the array, a current modulator ~~(14; 54)~~ comprising a source electrode, a drain electrode and a gate electrode, a drain current ~~(I<sub>d</sub>)~~ being able to pass through said modulator in order to supply said emitter ~~(2; 52)~~, for a voltage between the drain or the source and the gate equal to or greater than a trip-threshold voltage ~~(V<sub>th</sub>)~~,
    - for each column of emitters ~~(2; 52)~~, column address means ~~(10; 60)~~ capable of addressing in succession each emitter ~~(2; 52)~~ of said column of emitters by applying a value ~~(I<sub>data</sub>, V<sub>data</sub>)~~ representative of a data setpoint ~~(U<sub>e</sub>)~~ to the gate electrode of the modulator ~~(14; 54)~~ associated with this emitter ~~(2; 52)~~, in order to actuate it, during a programming step,
    - for each row of emitters ~~(2; 52)~~, row select means ~~(8; 68)~~ capable of selecting in succession the emitters ~~(2; 52)~~ of each row of emitters, during the programming step and
    - for each modulator ~~(14; 54)~~, storage means ~~(18)~~ capable of storing electric charges at the gate electrode of the modulator ~~(14; 54)~~; and
    - trip-threshold voltage compensation means ~~(12)~~ comprising comparators ~~(28)~~, the comparators ~~(28)~~ being capable of comparing, during the step of programming a selected emitter ~~(2; 52)~~, a value representative of the drain current ~~(I<sub>d</sub>)~~ supplying the selected emitter with the value ~~(I<sub>data</sub>, V<sub>data</sub>)~~



representative of the data setpoint ( $U_e$ ) for controlling the quantity of charge stored in the storage means (18),

~~characterized in that~~ wherein the compensation means (12) comprise, for each column of emitters (2; 52), a single unit (26) for determining a representative value of the drain current ( $I_d$ ) supplying the selected emitter (2; 52) on the basis of a measurement of a representative value of the current for supplying all of the emitters (2; 52) of the column.

2. (currently amended) The image display device as claimed in claim 1, ~~characterized in that~~ wherein the power supply means ( $V_{dd}$ ) for the emitters are connected directly to each modulator (14) of the control means.
3. (currently amended) The image display device as claimed in claim 1, ~~characterized in that~~ wherein the power supply means ( $V_{dd}$ ) for the emitters are connected directly to each emitter (2) of a column.
4. (currently amended) The image display device as claimed in ~~any one of the preceding claims~~, ~~characterized in that~~ claim 1, wherein the power supply means ( $V_{dd}$ ) for the emitters comprise a voltage supply generator capable of supplying all of the emitters of a column and in that the compensation means (12) are capable of compensating in succession the trip-threshold voltage ( $V_{th}$ ) of each modulator (14; 54) of all of the emitters of a column.
5. (currently amended) The image display device as claimed in ~~any one of the preceding claims~~, ~~characterized in that~~ claim 1, wherein the compensation means (12) further include:
  - a drive generator (30) capable of generating a drive signal ( $I_{data}$ ) applied to the gate of said modulator (14; 54); and
  - means (28; 34) for modulating the duration of said drive signal ( $I_{data}$ ) according to the value of the data setpoint ( $U_e$ ) and the value of the trip-threshold voltage ( $V_{th}$ ).



6. (currently amended) The image display device as claimed in ~~any one of the preceding claims, characterized in that~~ claim 5, wherein the data setpoint ( $U_e$ ) is a data voltage and in that the comparators (28) are capable of emitting a warning signal (S) when the voltage representative of the intensity of the drain current ( $I_d$ ) is equal to a number of times said data voltage.
7. (currently amended) The image display device as claimed in ~~claim 5 in combination with claim 6, characterized in that~~ wherein the means for modulating the duration of the drive signal ( $I_{data}$ ) comprise:
  - a switch (32) connected in series with the drive generator (30); and
  - a control unit (34) capable of switching said switch (32), on the one hand, when the data setpoint ( $U_e$ ) is received, and on the other hand, when the warning signal (S) is received.
8. (currently amended) The image display device as claimed in ~~any one of claims 5 to 7, characterized in that~~ claim 5, wherein the drive signal ( $I_{data}$ ) generated by the drive generator (30) is amplitude-modulated according to the value of the data setpoint ( $U_e$ ).
9. (currently amended) The image display device as claimed in ~~any one of claims 5 to 8, characterized in that~~ claim 5, wherein the drive generator (30) is a current generator and the modulator (14; 54) is capable of being current-controlled.
10. (currently amended) The image display device as claimed in ~~any one of claims 5 to 8, characterized in that~~ claim 5, wherein the drive generator (30) is a ramp voltage generator and the modulator (14; 54) is capable of being voltage-controlled.



11. (currently amended) The image display device as claimed in ~~any one of the preceding claims, characterized in that~~ claim 1, wherein the compensation means ~~(12)~~ further include a unit ~~(26)~~ for measuring the intensity of a current, capable of measuring the intensity of the drain current ( $I_d$ ) passing through a selected emitter ~~(2)~~ during the programming step ~~(C)~~.
12. (currently amended) The image display device as claimed in claim 11, ~~characterized in that~~ wherein the supply means comprise a line ~~(4)~~ to which the measurement unit ~~(26)~~ is directly connected.
13. (currently amended) The image display device as claimed in ~~any one of the preceding claims, characterized in that~~ claim 1, wherein the storage means comprise at least one storage capacitor ~~(18)~~ connected to the gate and to the source of the modulator ~~(14)~~ and in that the compensation means ~~(12)~~ further include reset means ~~(36)~~ capable of applying a voltage pulse to said capacitor in order to discharge it.